

NS8AT - NS8MT

PRV : 50 - 1000 Volts
Io : 8.0 Ampere

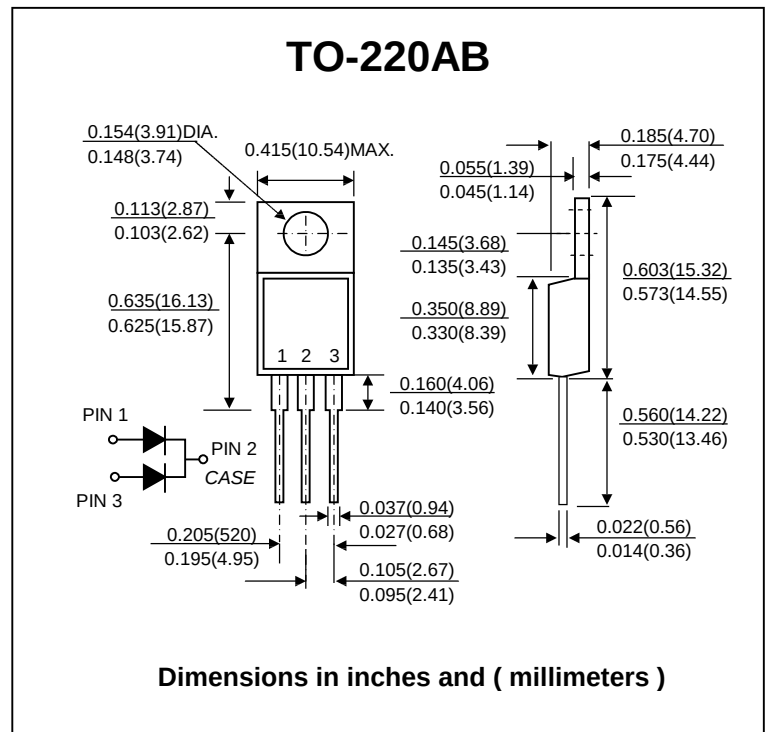
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Glass passivated chip junction
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : Epoxy, Molded
- * Lead Temperature for Soldering Purposes:
260°C Max. for 10 Seconds
- * Weight : 1.9 grams (Approximately)

Glass Passivated General Purpose



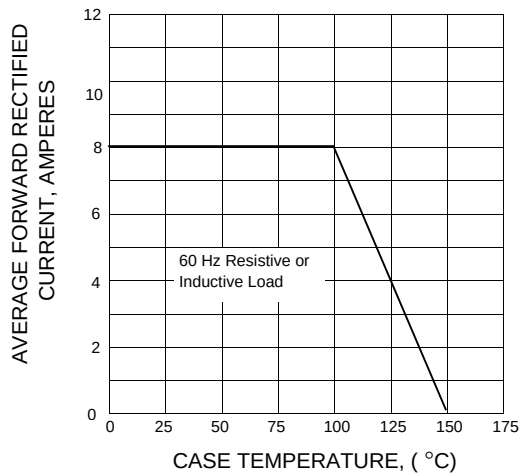
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

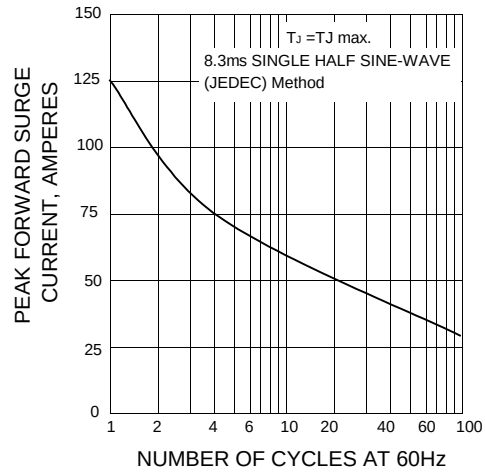
RATING	SYMBOL	NS8 AT	NS8 BT	NS8 DT	NS8 GT	NS8 JT	NS8 KT	NS8 MT	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum Working Reverse Voltage	V _{RWM}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current, T _c = 150°C	I _{F(AV)}	8.0							A
Maximum Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	125							A
Maximum Instantaneous Forward Voltage at I _F = 8 A	V _F	1.1							V
Maximum Reverse Current at T _c = 25 °C	I _R	10							μA
Rated DC Blocking Voltage T _c = 150 °C	I _{R(H)}	100							μA
Maximum Thermal Resistance, Junction to Case	R _{θJC}	3.0							°C/W
Junction Temperature Range	T _J	- 55 to + 150							°C
Storage Temperature Range	T _{STG}	- 55 to + 150							°C

RATING AND CHARACTERISTIC CURVES (NS8AT ~ NS8MT)

**FIG.1 - FORWARD CURRENT
DERATING CURRENT**



**FIG.2 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT**



**FIG.3 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS**

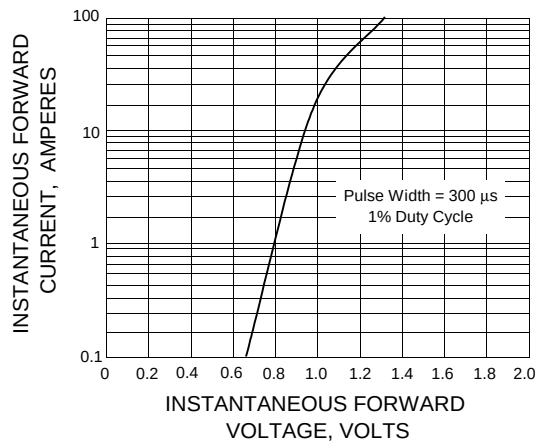


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

